

WHAT'S CLAIMED IS:

1. A method for RF resources management in multi-standard wireless communication system, comprising:

adding a system type identification element in downlink information;

5 allocating RF resources to different wireless communication schemes; and

corresponding the different wireless communication schemes which have been allocated said RF resources to different values of said system type identification element.

2. The method of claim 1, further including:

10 allocating RF resources within the same frequency band to the different wireless communication schemes; and

corresponding the different wireless communication schemes which have been allocated said RF resources in the same frequency band to said different values of said system type identification element.

15 3. The method of claims 1 or 2, wherein said system type identification element is a set bit to identify the different wireless communication schemes.

4. The method of any of claims 1-3, wherein said downlink includes broadcast channel.

5. The method of claim 1, wherein said wireless communication schemes

include at least two of following: IS-95, CDMA, GSM, TSM, GPRS, TD-SCDMA, W-CDMA, CDMA 2000 and WLAN.

6. A method for a mobile terminal accessing wireless communication system, comprising:

5 receiving downlink information transmitted via a downlink;
acquiring the value of the system type identification element in said downlink
information;
judging whether the mobile terminal supports the wireless communication
scheme corresponding to said value of the system type identification element
10 according to said value of the system type identification element contained in said
downlink information and the configuration of said mobile terminal; and
accessing the wireless communication system with the wireless
communication scheme, if the mobile terminal supports the wireless
communication scheme corresponding to said value of the system type
15 identification element.

7. The method of claim 6, wherein when the status of the mobile terminal is
power-on, said value of the system type identification element is the value of
system type identification element of the current cell and said wireless
communication scheme is the wireless communication scheme employed by the

current cell.

8. The method of claim 6, wherein when the status of the mobile terminal is cell handover, said value of the system type identification element is the value of system type identification element of a adjacent cell and said wireless communication scheme is the wireless communication scheme employed by the adjacent cell.

9. The method of claim 8, wherein if the mobile terminal cannot access the wireless communication scheme corresponding to the value of the system type identification element of the adjacent cell, a cell handover will not be executed.

10 10. The method of any of claims 6-9, wherein said downlink includes broadcast channel.

11. A device for mobile terminals accessing to wireless communication system, comprising:

a receiving means, receiving downlink information transmitted via a downlink;
15 a detecting means, acquiring the value of the system type identification element in said downlink information;
a judging means, judging whether the mobile terminal supports the wireless communication scheme corresponding to said value of the system type identification element according to said value of the system type identification

element contained in said downlink information and the configuration of said mobile terminal; and

an accessing means, accessing the wireless communication system with the wireless communication scheme if the mobile terminal supports the wireless communication scheme corresponding to said value of the system type identification element.

12. The device of claim 11, wherein when the status of the mobile terminal is power-on, said value of the system type identification element is the value of system type identification element of the current cell and said wireless communication scheme is the wireless communication scheme employed by the current cell.

13. The device of claim 11, wherein when the status of the mobile terminal is cell handover, said value of the system type identification element is the value of system type identification element of a adjacent cell and said wireless communication scheme is the wireless communication scheme employed by the adjacent cell.

14. The device of claim 13, wherein if the mobile terminal cannot access the wireless communication scheme corresponding to the value of the system type identification element of the neighbor cell, a cell handover will not be executed.

20 15. The device of any of claims 11-14, wherein said downlink includes

broadcast channel.

16. A mobile terminal, comprising:

a transmitting means, transmitting wireless signals via a uplink;

a receiving means, receiving wireless signals transmitted via a downlink;

5 an accessing means for accessing wireless communication system, wherein the accessing means can judge whether the mobile terminal supports the wireless communication scheme corresponding to the value of the system type identification element according to said value of the system type identification element received and acquired by said receiving means from wireless signals of the downlink and the 10 configuration of said mobile terminal, and make the mobile terminal access the wireless communication system with the wireless communication scheme if the mobile terminal supports the wireless communication scheme corresponding to said value of the system type identification element.

17. The mobile terminal of claim 16, wherein when the status of the mobile 15 terminal is power-on, said value of the system type identification element is the value of system type identification element of the current cell and said wireless communication scheme is the wireless communication shceme employed by the current cell.

18. The mobile terminal of claim 16, wherein when a state of the mobile

terminal is cell handover, said value of the system type identification element is the value of system type identification element of a adjacent cell and said wireless communication scheme is the wireless communication scheme employed by the adjacent cell.

5 19. The mobile terminal of claim 18, wherein if the mobile terminal cannot access the wireless communication scheme corresponding to the value of the system type identification element of the adjacent cell, a cell handover will not be executed.

10 20. The mobile terminal of any of claims 16-19, wherein said downlink includes broadcast channel.